

CLAIMS:

1. A luminescent screen comprising particles of luminescent material embedded in an inorganic material, characterized in that the inorganic material comprises aluminium phosphate.
- 5 2. A luminescent screen as claimed in claim 1, wherein the inorganic material further comprises particles of an inorganic oxide.
3. A luminescent screen as claimed in claim 2, wherein the inorganic oxide comprises a compound chosen from the group formed by aluminium oxide and silicon oxide.
- 10 4. A discharge lamp equipped with a luminescent screen as claimed in claims 1, 2 or 3.
5. A discharge lamp as claimed in claim 4, wherein the discharge lamp comprises
15 a lamp vessel that is transparent for visible light and the luminescent layer is deposited on part of an inner wall or part of an outer wall of the lamp vessel.
6. A discharge lamp as claimed in claim 5, wherein the luminescent screen is covered by a top layer.
- 20 7. A discharge lamp as claimed in claim 6, wherein the top layer comprises a compound chosen from the group formed by yttrium oxide, yttrium-strontium-borate and aluminium oxide.
- 25 8. A discharge lamp as claimed in claims 4-7, wherein the discharge lamp is a fluorescent lamp.